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jh
8/24/21
Initials/Date

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Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	0
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					
Depth to Aquifer of Concern	0 1 (2) 3	2	4	6	4
Net Precipitation	0 1 (2) 3	1	2	3	2
Permeability of the Unsaturated Zone	0 (1) 2 3	1	1	3	3
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			10	15	12
3 Containment	0 (1) 2 3	1	1	3	1
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 (12) 15 (18)	1	12	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	1
Total Waste Characteristics Score			13	26	19
5 Targets					
Ground Water Use	0 1 2 (3)	3	9	9	9
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 (30) 32 (35) 40	1	30	40	35
Total Targets Score			39	49	44
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			5070	57,330	10,032
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	8.84		17.50

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Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	0
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	0
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	2
Distance to Nearest Surface Water	(0) 1 2 3	2	0	6	2
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			5	15	7
3 Containment	0 (1) 2 3	1	1	3	1
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 (12) 15 (18)	1	12	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	1
Total Waste Characteristics Score			13	26	19
5 Targets					
Surface Water Use	0 1 (2) 3	3	6	9	6
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	0
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0
Total Targets Score			6	55	6
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			390	64,350	798
7 Divide line 6 by 64,350 and multiply by 100		S_{SW} =	0.61		1.24

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Air Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	0
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S_a = 0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100		S_a = 0.00			0.00

HRS

	S	S^2
Groundwater Route Score (S_{gw})	8.84	78.15
Surface Water Route Score (S_{sw})	0.61	0.37
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		78.52
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		8.86
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		5.12

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	17.50	306.25
Surface Water Route Score (S_{sw})	1.24	1.54
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		307.79
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		17.54
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		10.14

WORKSHEET FOR COMPUTING S_M